

INTERNATIONAL SEARCH REPORT

International Application No
PCT/BE2005/000025

A. CLASSIFICATION OF SUBJECT MATTER
INV. G21G1/00 G21K5/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
G21G G21K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/101757 A (BUCKLEY KENNETH R ; RUTH THOMAS J (CA); UNIV ALBERTA THE UNIVERSITY OF) 19 December 2002 (2002-12-19) cited in the application pages 5-12	1-4,6,7, 13-15
Y	-----	9-12
X	US 5 917 874 A (KOEHLER CONRAD ET AL) 29 June 1999 (1999-06-29) cited in the application column 2, line 36 - column 5, line 10	1,7, 15-17
X	US 2001/040223 A1 (ITO YOSHIKO ET AL) 15 November 2001 (2001-11-15) cited in the application paragraphs [0027], [0028]	1,4,15, 17
A	-----	7,16
	-----	-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

25 January 2006

Date of mailing of the international search report

22.05.06

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BE 1 011 263 A (ION BEAM APPLIC SA) 1 June 1999 (1999-06-01) cited in the application page 4; figures 1,2 -----	1,15
Y		9-12
X	US 5 425 063 A (FERRIERI RICHARD A ET AL) 13 June 1995 (1995-06-13) cited in the application column 1, lines 15-20 column 5, lines 13-18 column 9, lines 30-55 -----	1,6,9, 11,15
A		2,5,10
X	US 4 800 060 A (GOLDRING ET AL) 24 January 1989 (1989-01-24) column 1, lines 6-21 column 3, line 1 - column 4, line 2; figures 1-6 -----	1,4,7, 15-17

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-16

Invention 1: Claim 1-16

An irradiation cell for producing a radioisotope, comprising an insert of two separate metallic parts of different material, means for supplying and guiding a cooling medium, sealing means between the two parts, the assembly of the parts by bolts or welding. The form and the specific material of the parts are defined. A method for producing the insert.

2. claim: 17

The use of an irradiation cell before starting irradiation. The cavity is filled with less than 50% of the target material.

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 02101757	A 19-12-2002	CA 2450484	A1 19-12-2002	
		EP 1412951	A2 28-04-2004	
		JP 2005517151	T 09-06-2005	
		US 2005201504	A1 15-09-2005	
US 5917874	A 29-06-1999	NONE		
US 2001040223	A1 15-11-2001	NONE		
BE 1011263	A 01-06-1999	DE 20001114	U1 27-04-2000	
US 5425063	A 13-06-1995	NONE		
US 4800060	A 24-01-1989	NONE		